

## REMARKS

The specification is amended to correct a minor typographical error and fill in the application data. Specifically, paragraph 29 is amended delete the brackets and bold font, while paragraph 50 is amended to include the relevant application data. No new matter is added.

Claims 1-27 were originally presented in the application. By this amendment, claim 20 is cancelled, claims 1, 12 and 22 are amended. It is respectfully submitted that the pending claims define allowable subject matter.

Claims 1, 2 and 5 stand rejected under 35 U.S.C. §102(b) as being anticipated by 1988 IBM Technical Disclosure #NN8812461. (*IBM Technical Disclosure*). Applicant traverses this rejection and respectfully submits that the pending claims are allowable.

It is well established that anticipation requires the disclosure in a single prior art reference of each element of the claim under consideration. As such, for an anticipation rejection, all of the elements and limitations of the claim must be found within a single prior art reference. It does not appear that all of the elements and limitations of claim 1 are found within the *IBM Technical Disclosure* reference.

The Office Action provides that the *IBM Technical Disclosure* discloses "balancing the entire multiplexed data stream, via the utilization of only 'balanced' codes, thereby 'eliminating low frequencies from the spectrum' while permitting 'AC coupling'." (Office Action, paragraph 2, page 2, lines 20-23). Applicant disagrees that the *IBM Technical Disclosure* teaches "balancing the entire multiplexed data stream", alone or in some combination with "utilization of only 'balanced' codes" among other elements. Assuming *arguendo* that the *IBM Technical Disclosure* reference discloses such elements, the reference does not disclose "DC balancing said at least one component and said at least one data bit" as recited by claim 1 among other features. Applicant therefore believes that claim 1 is allowable. Claims 2 and 5, which depend from independent claim 1, recite additional features thereto and are believed allowable for all the reasons provided above with respect to claim 1.

Claims 3 and 7-11 stand rejected under 35 U.S.C. §103(a) as being unpatentable over the *IBM Technical Disclosure*. Applicant traverses this rejection and respectfully

submits that the pending claims are allowable. The *IBM Technical Disclosure* reference does not disclose each of the elements of amended claim 1 as provided previously. Claims 3 and 7-11, which depend directly or indirectly from independent claim 1, recite additional features thereto and are believed allowable for all the reasons provided above with respect to claim 1.

Further, the Examiner takes Official Notice that "it was conventional to have added overhead bits/data (e.g. such as CRC codes and/or hamming bits) to transmitted video data to detect and correct erroneous pixel values caused by transmission errors..." (Office Action, paragraph 4, page 4, lines 3-7). Applicant respectfully traverses the Examiner's assertions as provided below.

Claims 4 and 6 stand rejected under 35 U.S.C. §103(a) as being unpatentable over the *IBM Technical Disclosure* reference. Applicant traverses this rejection and respectfully submits that the pending claims are allowable. The *IBM Technical Disclosure* does not disclose each of the elements of amended claim 1 as provided previously. Claims 4 and 6 which depend from independent claim 1, recite additional features and are believed allowable for all the reasons provided above with respect to claim 1.

Claims 12-13, 18, 20-23 and 26 stand rejected under 35 U.S.C. §103(a) as being unpatentable over the *IBM Technical Disclosure* reference. Claim 20 is cancelled. Applicant traverses this rejection and respectfully submits that the pending claims are allowable.

The Office Action provides that the *IBM Technical Disclosure* discloses "balancing the entire multiplexed data stream, via the utilization of only 'balanced' codes, thereby 'eliminating low frequencies from the spectrum' while permitting 'AC coupling'." (Office Action, paragraph 2, page 2, lines 20-23). Again, Applicant disagrees that the *IBM Technical Disclosure* teaches "balancing the entire multiplexed data stream", alone or in some combination with "utilization of only 'balanced' codes" among other elements. Assuming *arguendo* that the *IBM Technical Disclosure* reference discloses such elements, the reference does not disclose "DC balancing said components and said concatenated data bit" as recited by claim 12 among other features or "DC balancing said color components and said concatenated data bit" as recited by claim 22, among

other features. Claims 13, 18, 21, 23 and 26, which depend, directly or indirectly from claims 12 and 22, recite additional features thereto and are believed allowable for all the reasons provided above with respect to claims 12 and 22.

Further, the Examiner takes Official Notice that "it was notoriously well known in the art for the video that is transferred between a controller/PC and its CRT display to have been originated from a composite signal source thereby requiring the 'splitting' of the video components prior to transmission." (Office Action, paragraph 6, page 6, lines 15-20). Applicant respectfully traverses the Examiner's assertions as provided below.

Claims 15 and 16 stand rejected under 35 U.S.C. §103(a) as being unpatentable over the *IBM Technical Disclosure* reference. Applicant traverses this rejection and respectfully submits that the pending claims are allowable. The reference does not disclose each of the elements of amended claim 12 as provided previously. Claims 15 and 16, which depend from independent claim 12, recite additional features thereto and are believed allowable for all the reasons provided above with respect to claim 12.

Further, the Examiner takes Official Notice that "it was conventional to have added overhead bits/data (e.g. such as CRC codes and/or hamming bits) to transmitted video data to detect and correct erroneous pixel values caused by transmission errors." (Office Action, paragraph 7, page 7, lines 13-17). Applicant respectfully traverses the Examiner's assertions as provided below.

Claim 24 stands rejected under 35 U.S.C. §103(a) as being unpatentable over the *IBM Technical Disclosure* reference. Applicant traverses this rejection and respectfully submits that the pending claim is allowable. The *IBM Technical Disclosure* reference does not disclose each of the elements of amended claim 22 as provided previously. Claim 24 which depends from independent claim 22, recites additional features thereto and is believed allowable for all the reasons provided above with respect to claim 22.

Further, the Examiner takes Official Notice that "it was conventional to have added overhead bits/data (e.g. such as CRC codes and/or hamming bits) to transmitted video data to detect and correct erroneous pixel values caused by transmission errors." (Office Action, paragraph 8, page 8, lines 14-18). Applicant respectfully traverses the Examiner's assertions as provided below.

Claims 17 and 19 stand rejected under 35 U.S.C. §103(a) as being unpatentable over the *IBM Technical Disclosure*. Applicant traverses this rejection and respectfully submits that the pending claims are allowable. The *IBM Technical Disclosure* reference does not disclose each of the elements of amended claim 12 as provided previously. Claims 17 and 19, which depend directly or indirectly from independent claim 12, recite additional features and are believed allowable for all the reasons provided above with respect to claim 12.

Claims 25 and 27 stand rejected under 35 U.S.C. §103(a) as being unpatentable over the *IBM Technical Disclosure* reference. Applicant traverses this rejection and respectfully submits that the pending claims are allowable. The *IBM Technical Disclosure* does not disclose each of the elements of amended claim 22 as provided previously. Claims 25 and 27, which depend from independent claim 22, recite additional features and are believed allowable for all the reasons provided above with respect to claim 22.

Claim 14 stands rejected under 35 U.S.C. §103(a) as being unpatentable over the *IBM Technical Disclosure* reference. Applicant traverses this rejection and respectfully submits that the pending claim is allowable. The *IBM Technical Disclosure* does not disclose each of the elements of amended claim 12 as provided previously. Claim 14, which depends from independent claim 12, recites additional features and is believed allowable for all the reasons provided above with respect to claim 12.

Further, the Examiner takes Official Notice that "it was notoriously well known in the art for the video data that is transferred between a controller/PC and its CRT display to have comprised eight bit (or greater) color pixel data." (Office Action, paragraph 11, page 11, lines 11-14). Applicant respectfully traverses the Examiner's assertions as set forth below.

With respect to claims 3, 7-11, 15-16 and 24, the Examiner takes Official Notice that "it was conventional to have added overhead bits/data (e.g. such as CRC codes and/or hamming bits) to transmitted video data to detect and correct erroneous pixel values caused by transmission errors." (Office Action, paragraph 4, page 4, lines 3-7; paragraph 7, page 7, lines 13-17 and paragraph 8, page 8, lines 14-18). Applicant respectfully traverses the Examiner's assertions. Alternatively, if the Examiner's

assertions are based on the personal knowledge of the Examiner, then under MPEP §2144.03(C) and 37 CFR §1.104(d)(2), the Examiner's assertion must be supported by an Affidavit.

According to MPEP §2144.03(A), Official Notice, without supporting references, should only be asserted when the subjects asserted to be common knowledge are "capable of instant unquestionable demonstration as being well-known." That is, the subject asserted must be of "notorious character" under MPEP §2144.03(A).

However, Applicant respectfully submits that the claimed elements are not common knowledge and well-known in the art. Applicant submits that the "a thorough search of the prior art," was performed as part of the examination of the present application. However, such detailed and thorough search of the prior art failed to yield any mention of the teachings as appears to be asserted as known in the art. Applicant respectfully submits that if claimed elements had been of "notorious character" and "capable of instant unquestionable demonstration as being well-known" under MPEP §2144.03(A); then such subject matter would have appeared during the detailed and through search of the art.

With respect to claims 12-13, 14, 18, 21-23 and 26, the Examiner takes Official Notice that "it was notoriously well known in the art for the video that is transferred between a controller/PC and its CRT display to have been originated from a composite signal source thereby requiring the "splitting" of the video components prior to transmission." (Office Action, paragraph 6, page 6, lines 15-20). Applicant respectfully traverses the Examiner's assertions.

Applicant again respectfully submits that the claimed elements are not common knowledge and well-known in the art. Applicant submits that the detailed and thorough search of the prior art failed to yield any mention of the teachings as appears to be asserted as known in the art. Applicant respectfully submits that if claimed elements had been of "notorious character" and "capable of instant unquestionable demonstration as being well-known" under MPEP §2144.03(A), then such subject matter would have appeared during the detailed and through search of the art.

With respect to claim 14, the Examiner takes Official Notice that "it was notoriously well known in the art for the video data that is transferred between a

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controller/PC and its CRT display to have comprises eight bit (or greater) color pixel data." (Office Action, paragraph 11, page 11, lines 11-14). Applicant respectfully traverses the Examiner's assertions.

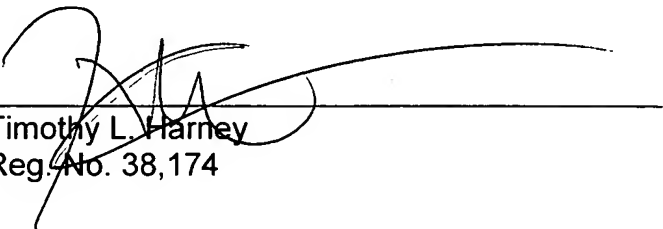
Yet again Applicant submits that the claimed elements are not common knowledge and well-known in the art. Applicant submits that detailed and thorough search of the prior art failed to yield any mention of the teachings as appears to be asserted as known in the art. Applicant respectfully submits that if claimed elements had been of "notorious character" and "capable of instant unquestionable demonstration as being well-known" under MPEP §2144.03(A), then such subject matter would have appeared during the detailed and through search of the art.

In view of the foregoing, it is respectfully submitted that the pending claims define allowable subject matter. Reconsideration and allowance is respectfully requested.

The Commissioner is authorized to charge any necessary fees or credit any overpayment to the Deposit Account of McAndrews, Held & Malloy, Account No. 13-0017.

Dated: December 22, 2004

Respectfully submitted,



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